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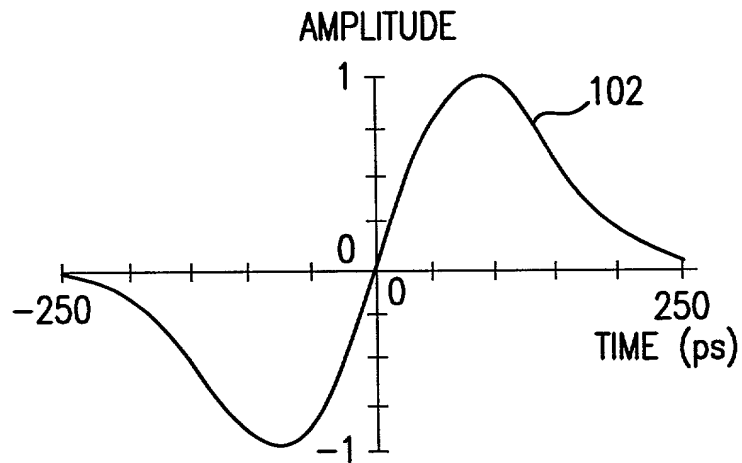


FIG. 1A

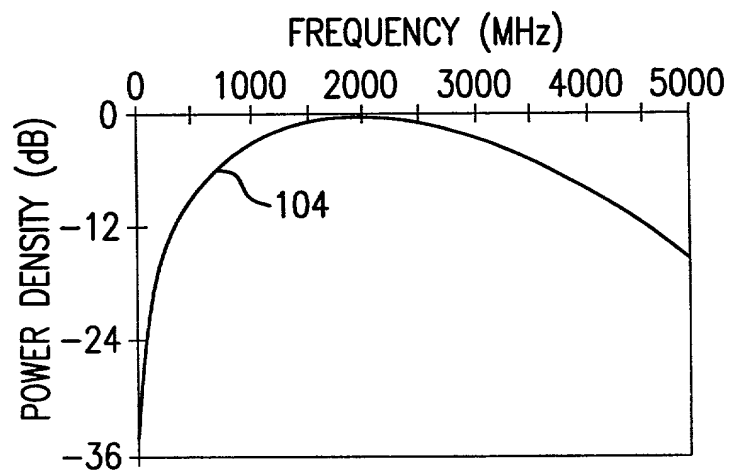


FIG. 1B

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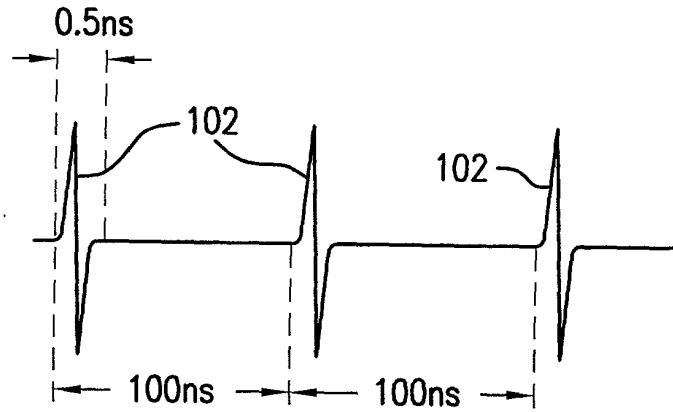


FIG.2A

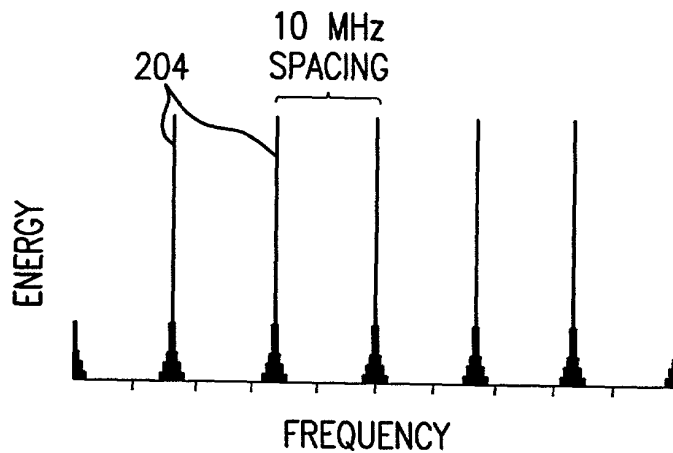


FIG.2B

FOOT 0623/860

Appl. No. 09/875,290; Group Art Unit: 2681

Dkt. No. 1659 0860001

Inventor(s): Richards et al.; Tel: 202/371-2600

Title: Apparatus, System and Method for One-of-Many
Positions Modulation in an Impulse Radio . . .

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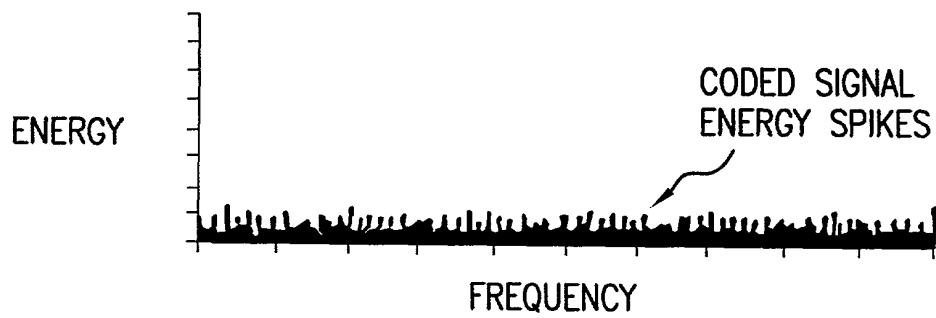
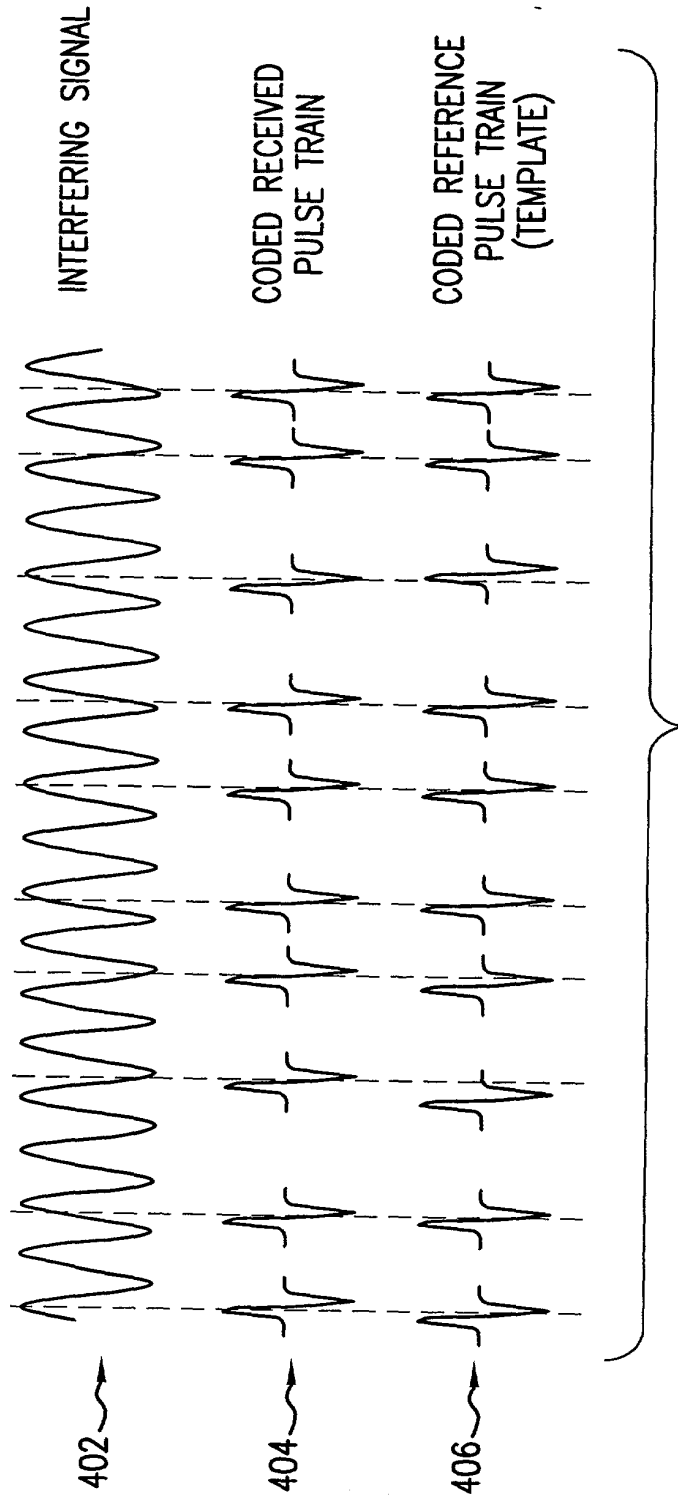
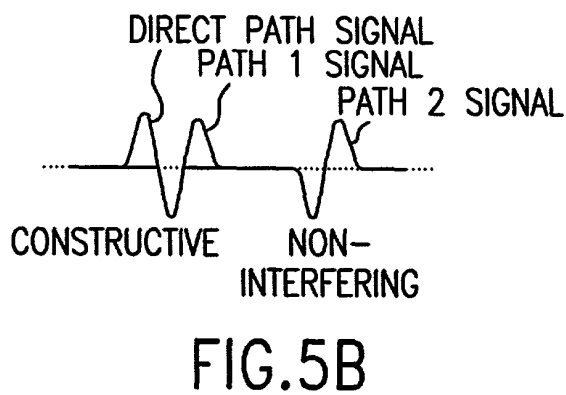
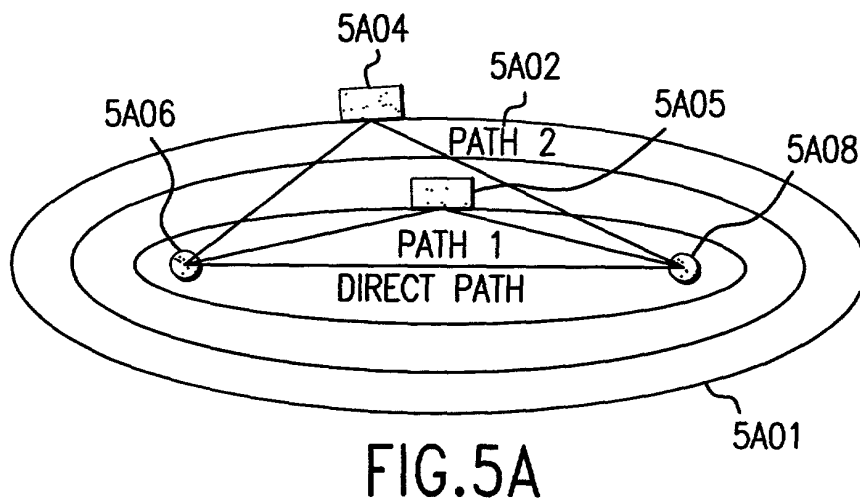


FIG.3

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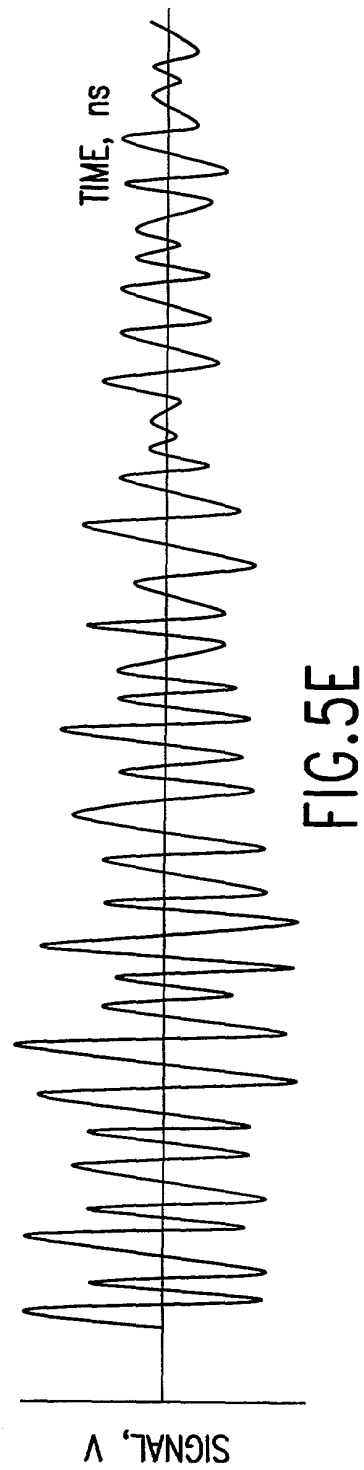
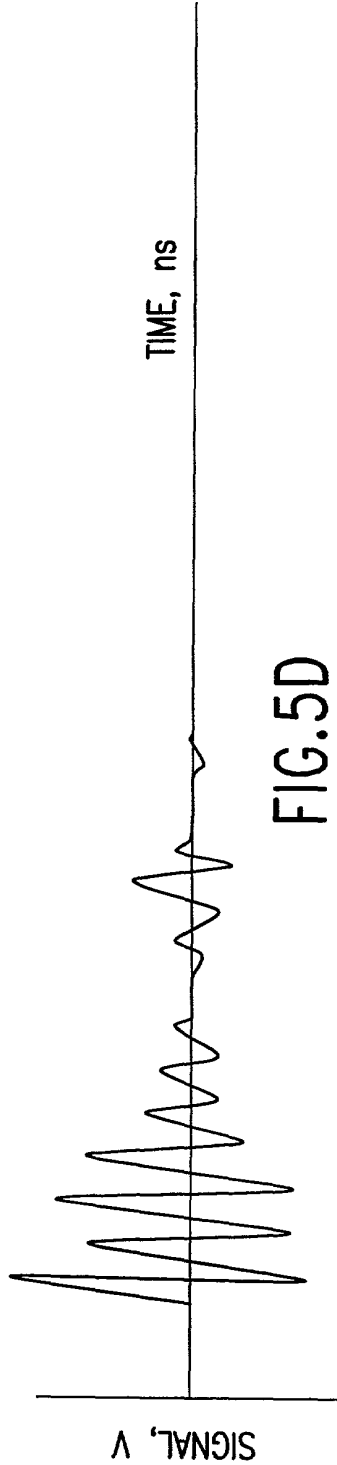
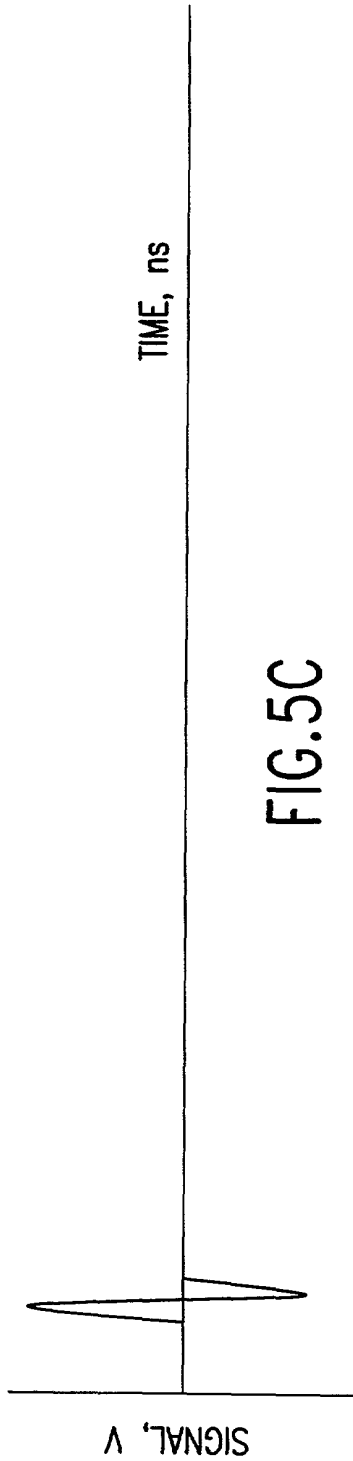


FIG. 5C

FIG. 5D

FIG. 5E

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Rayleigh Fading

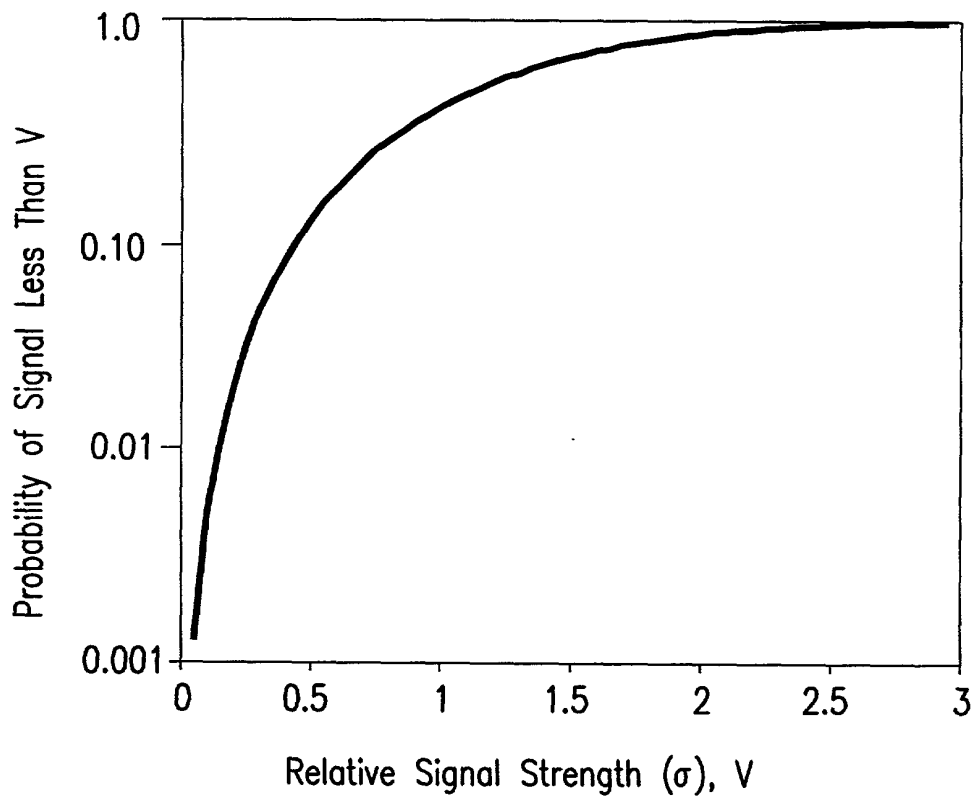


FIG.5F

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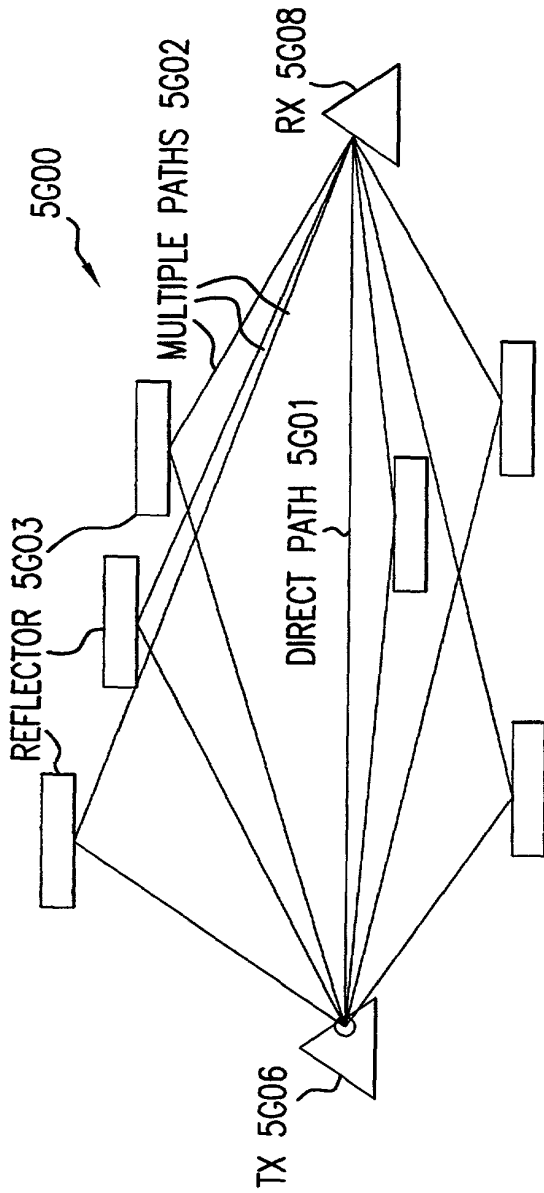


FIG. 5G

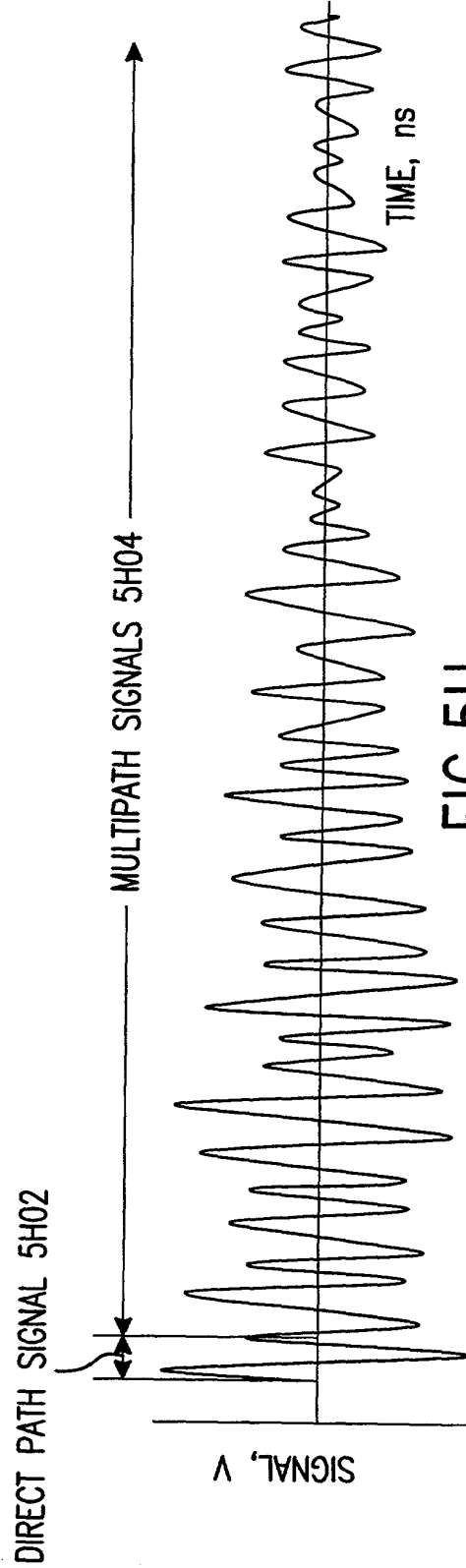
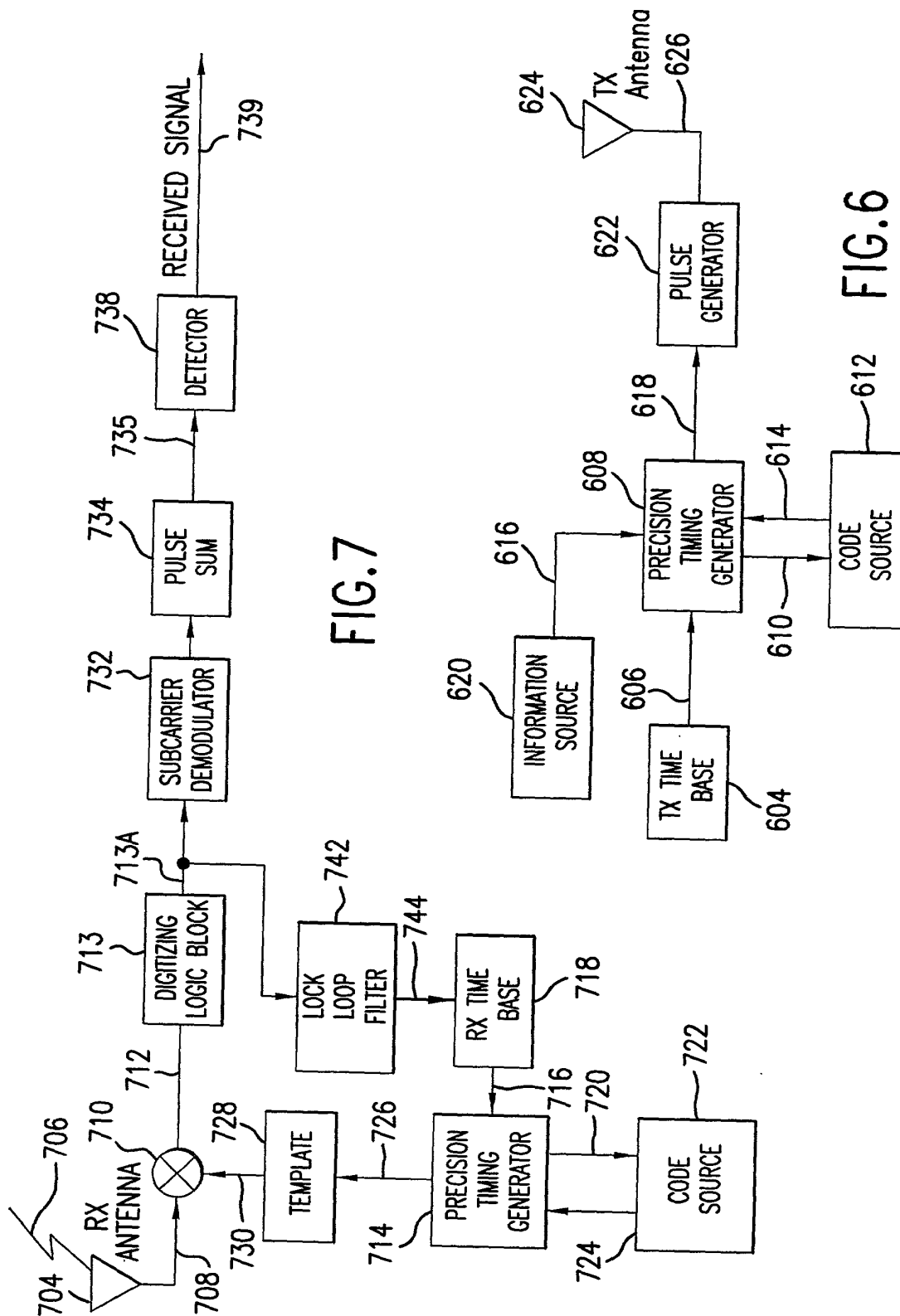


FIG. 5H

FIG. 5G

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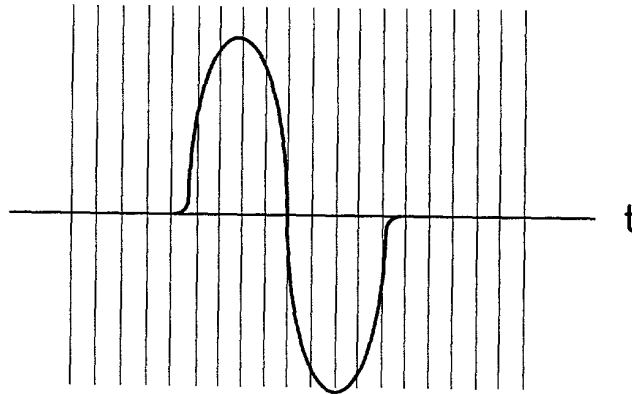


FIG. 8A

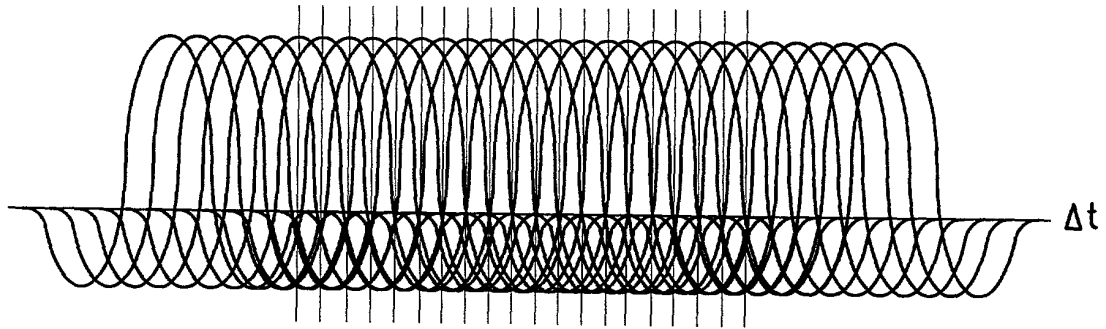
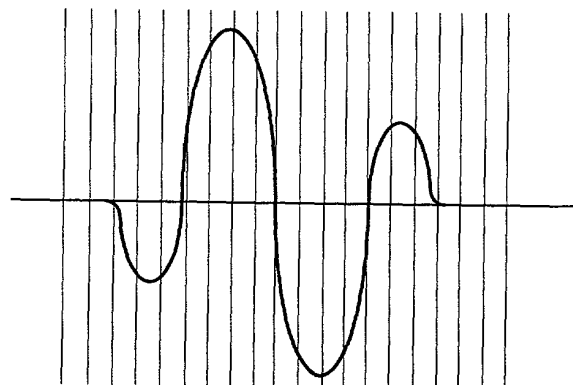


FIG. 8B



CORRESPONDING
 TO EACH
 Δt

FIG. 8C

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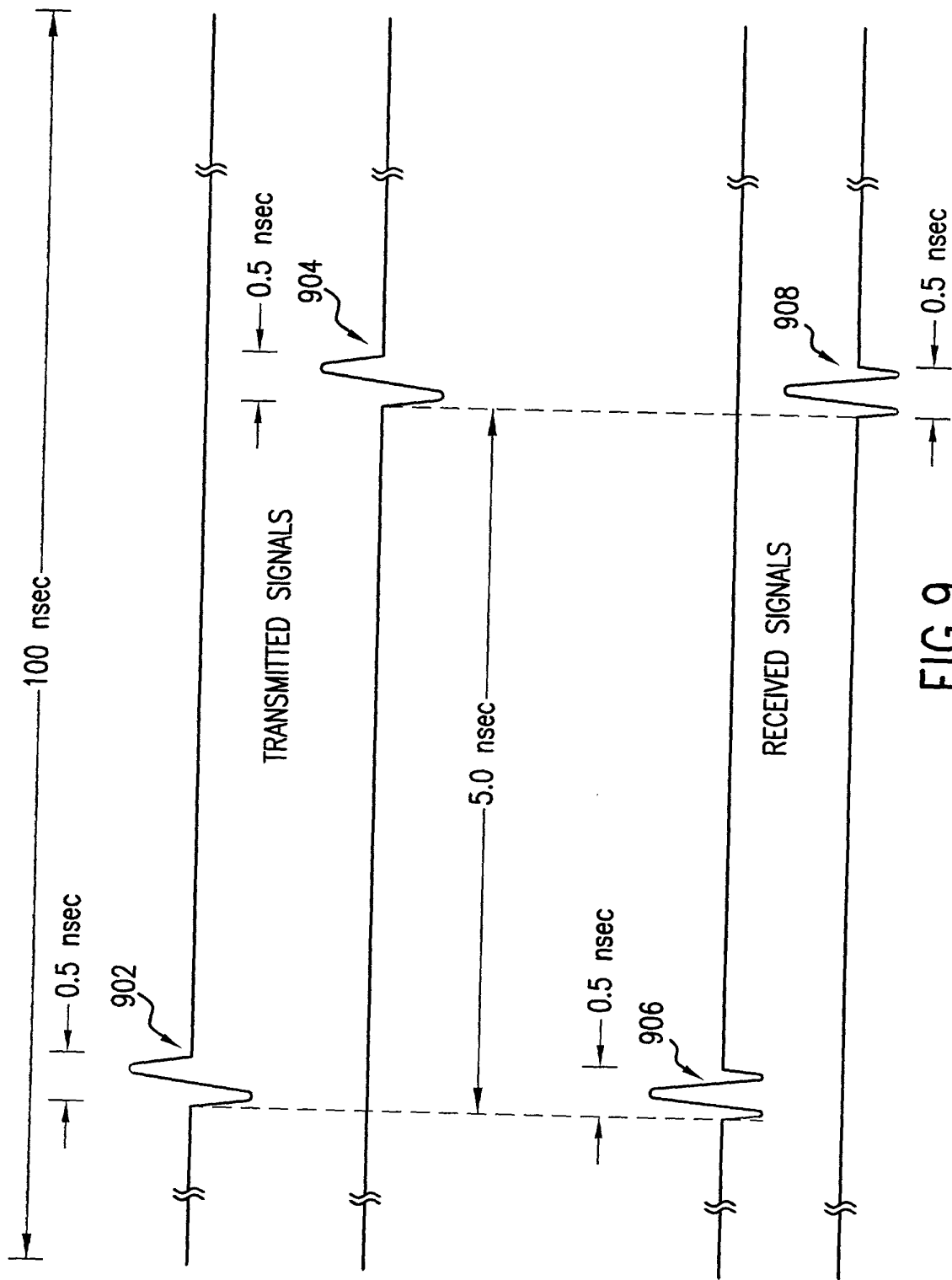


FIG.9

FIG. 9

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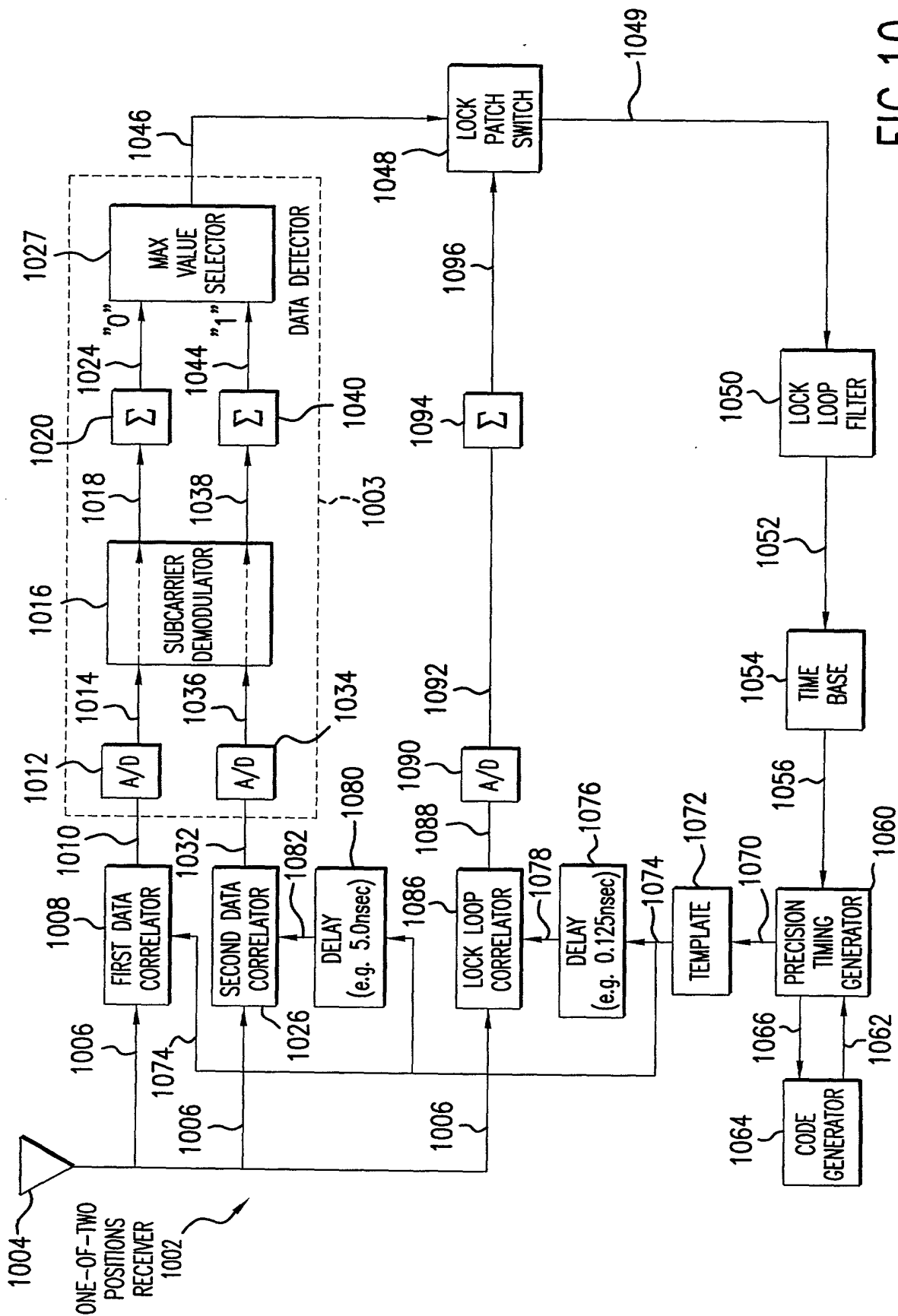


FIG.10

FIG. 10

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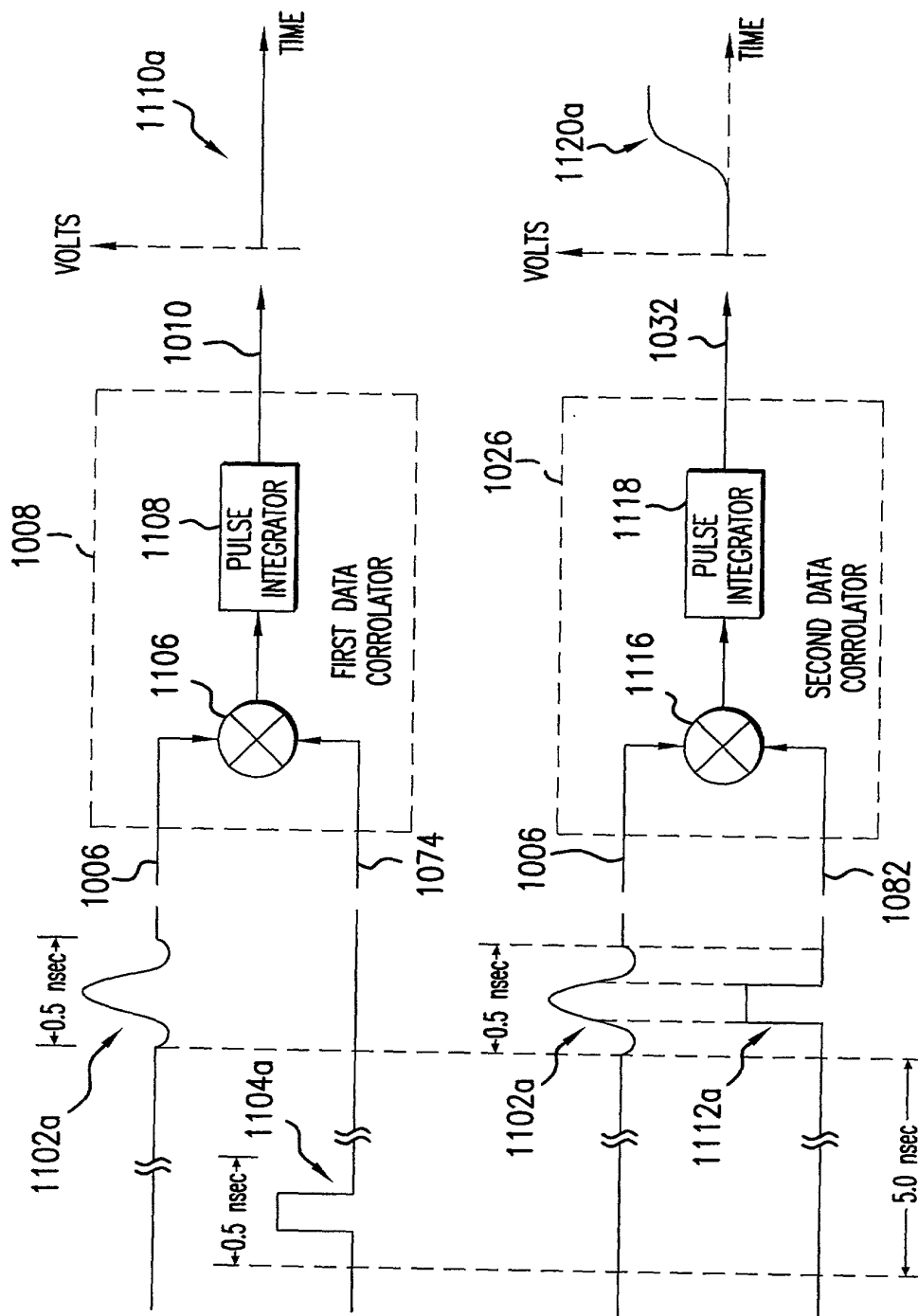


FIG. 11A

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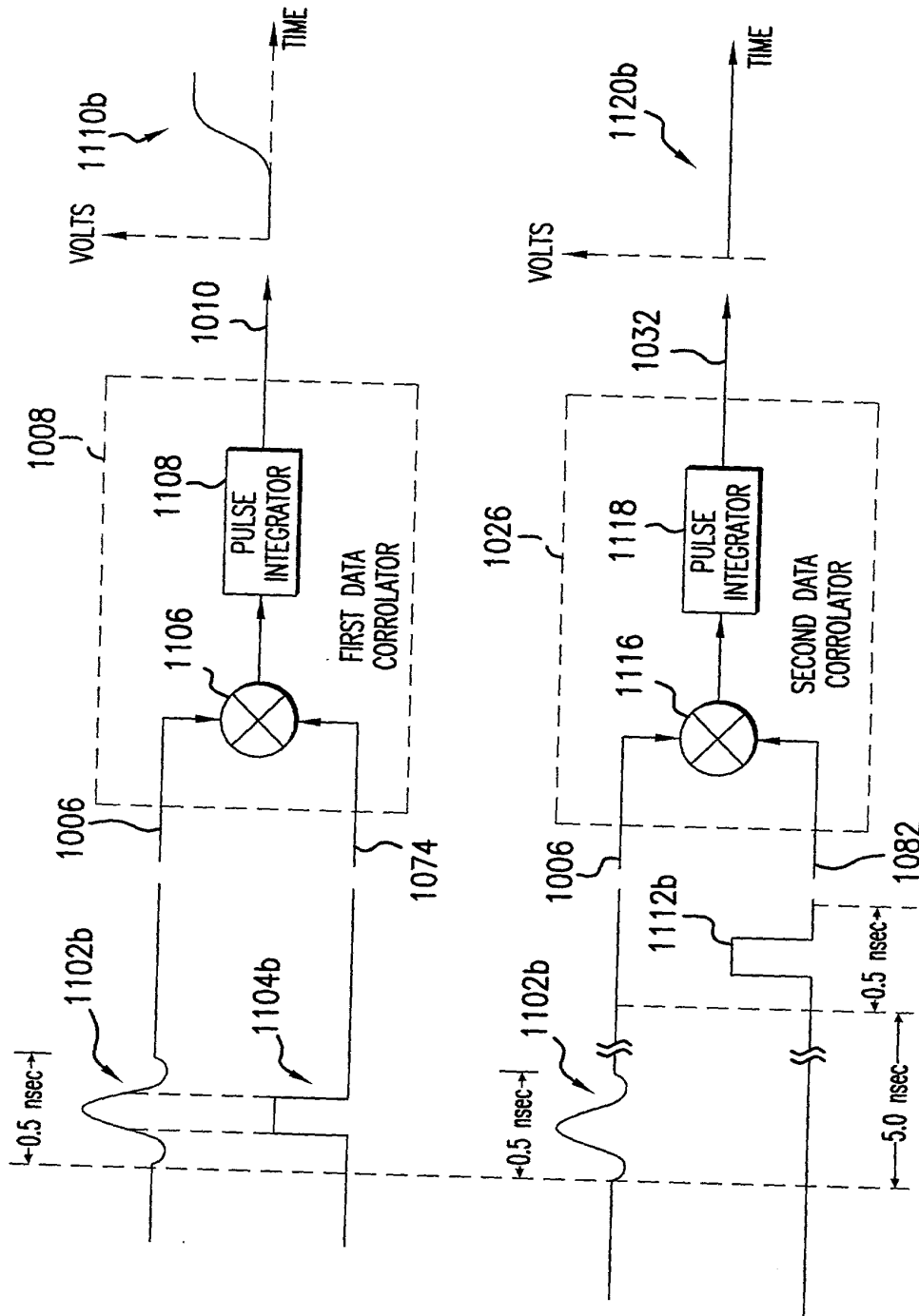


FIG. 11B

FIG. 11B

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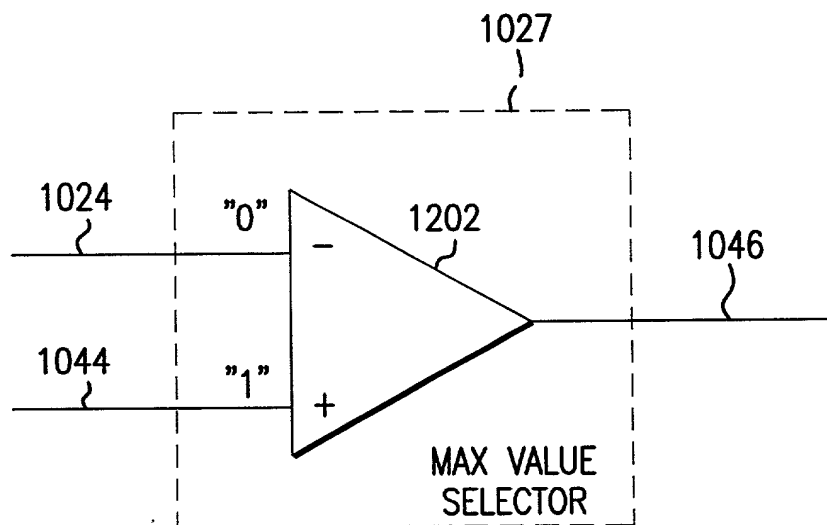


FIG.12

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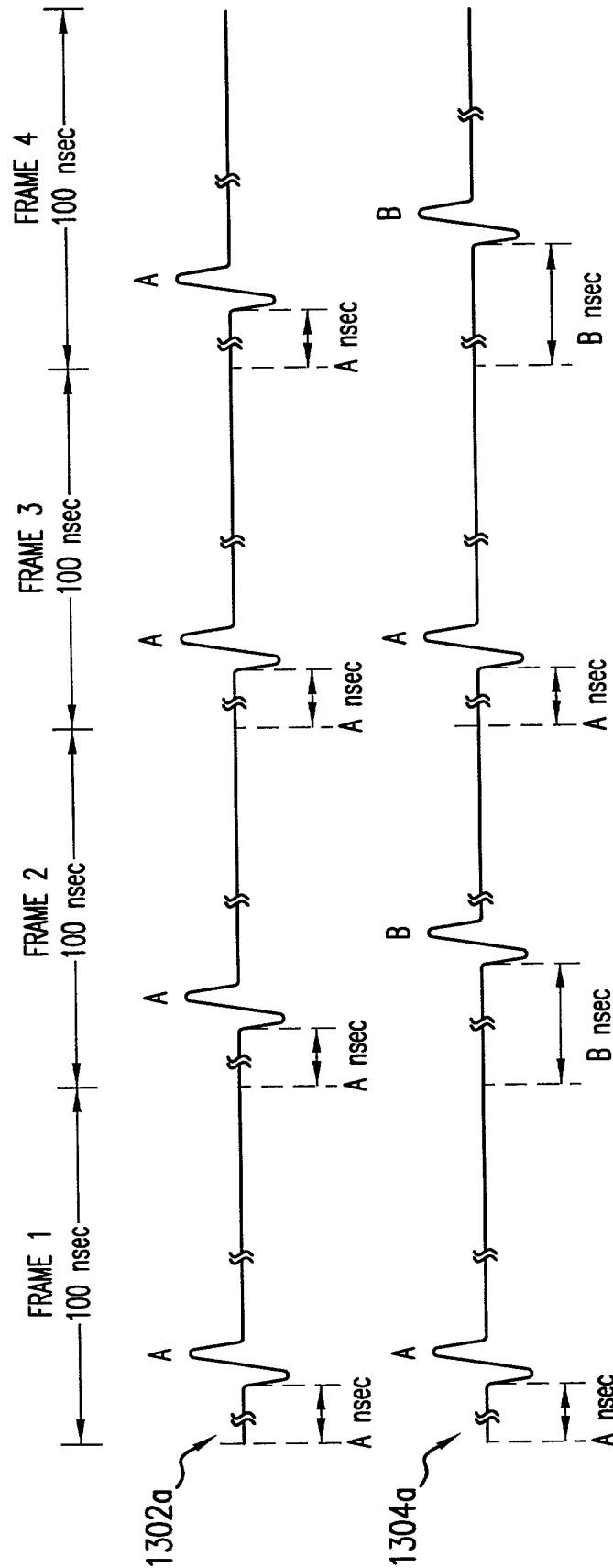


FIG. 13A

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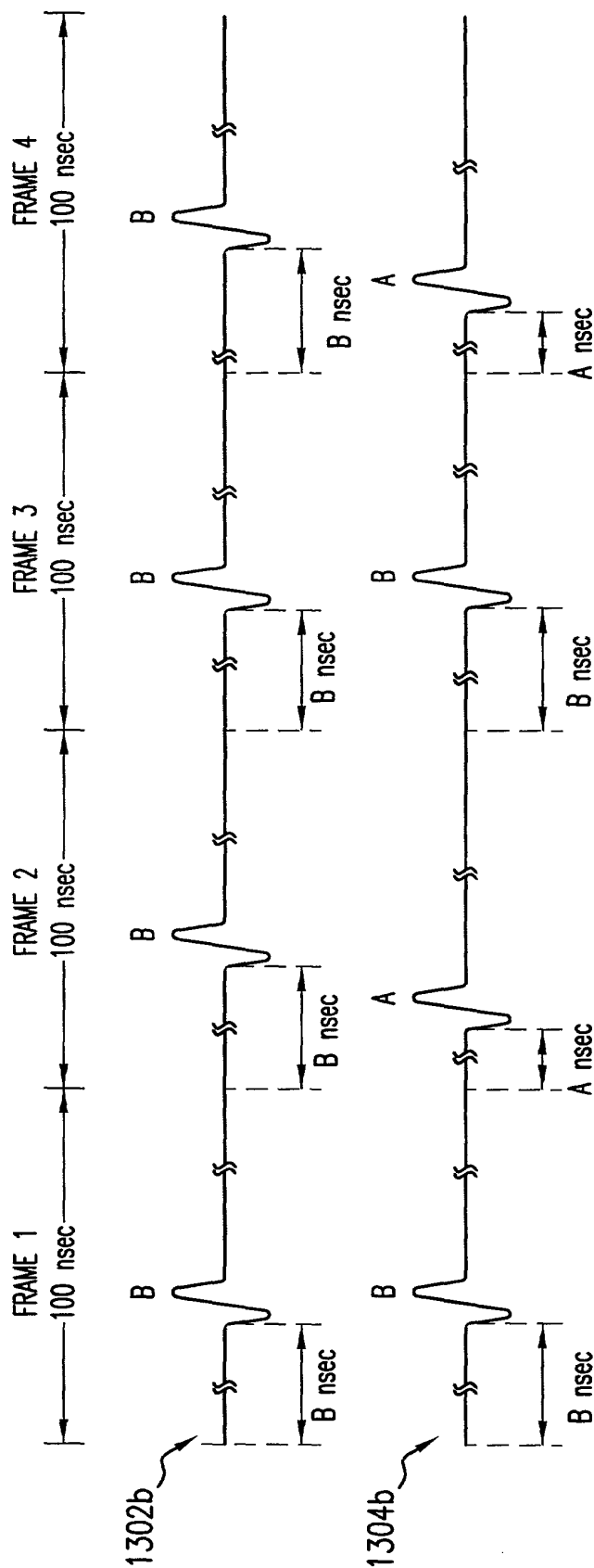


FIG.13B

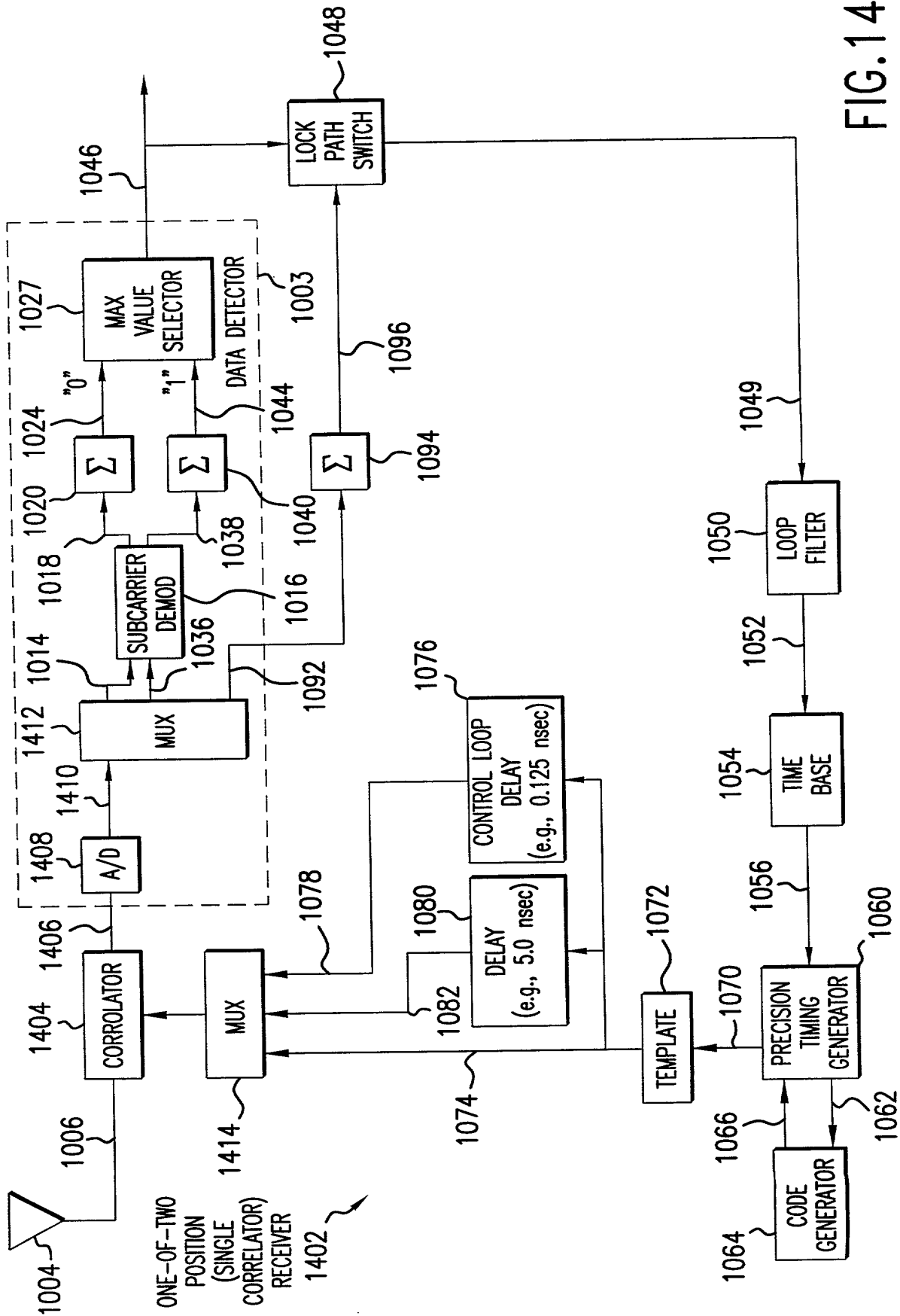


FIG.14

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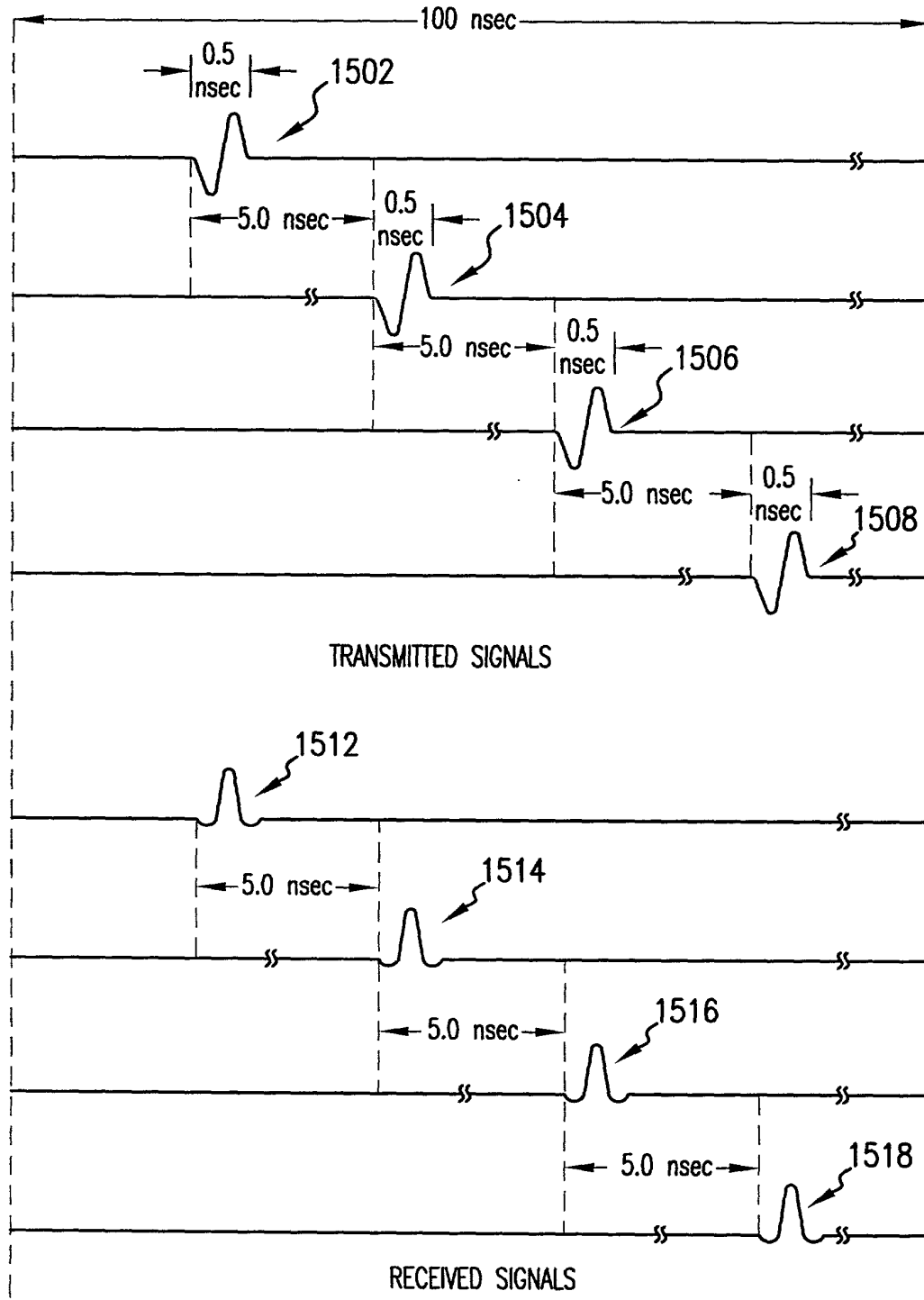
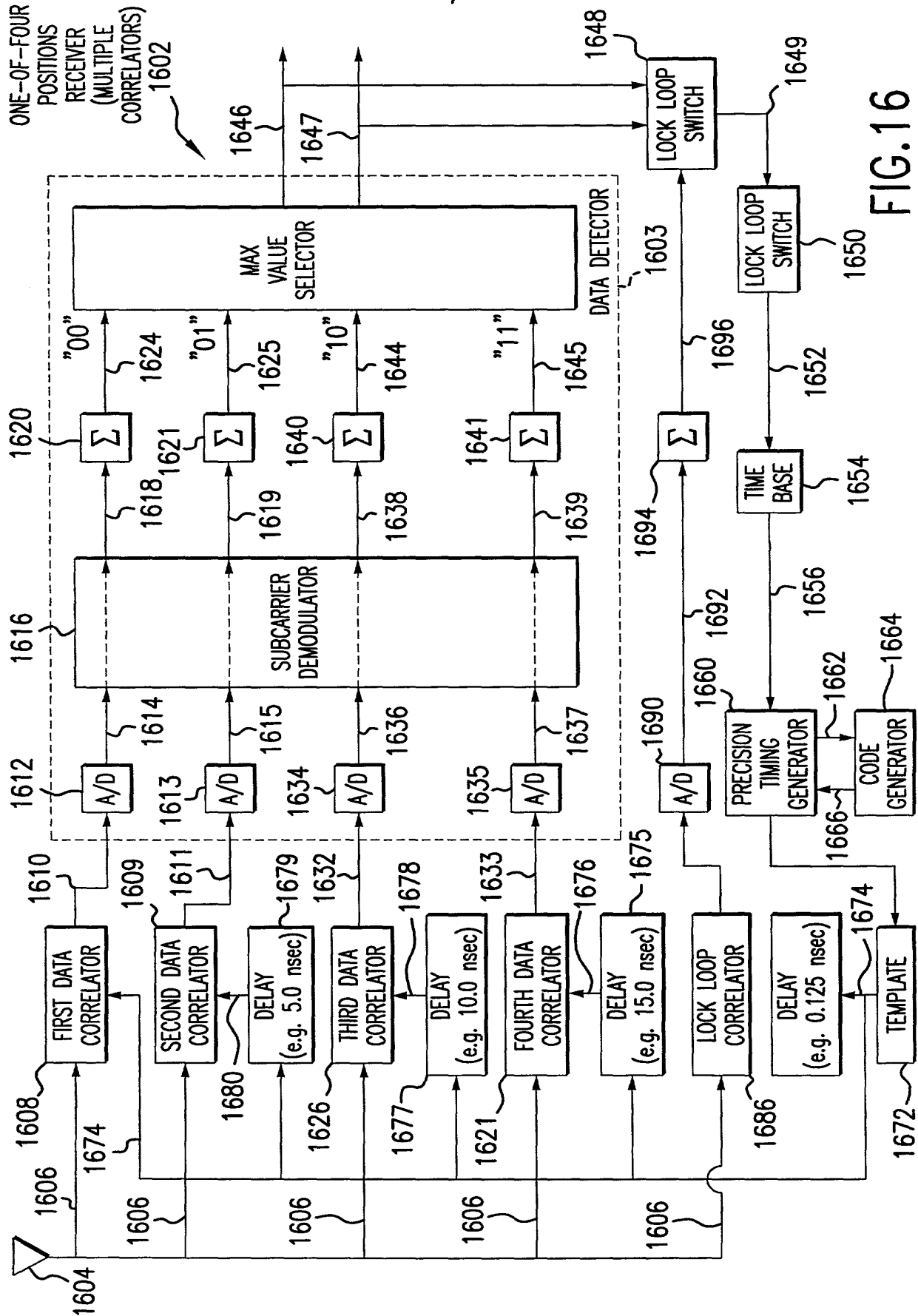


FIG.15

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 Inventor(s). Richards et al., Tel. 202/371-2600
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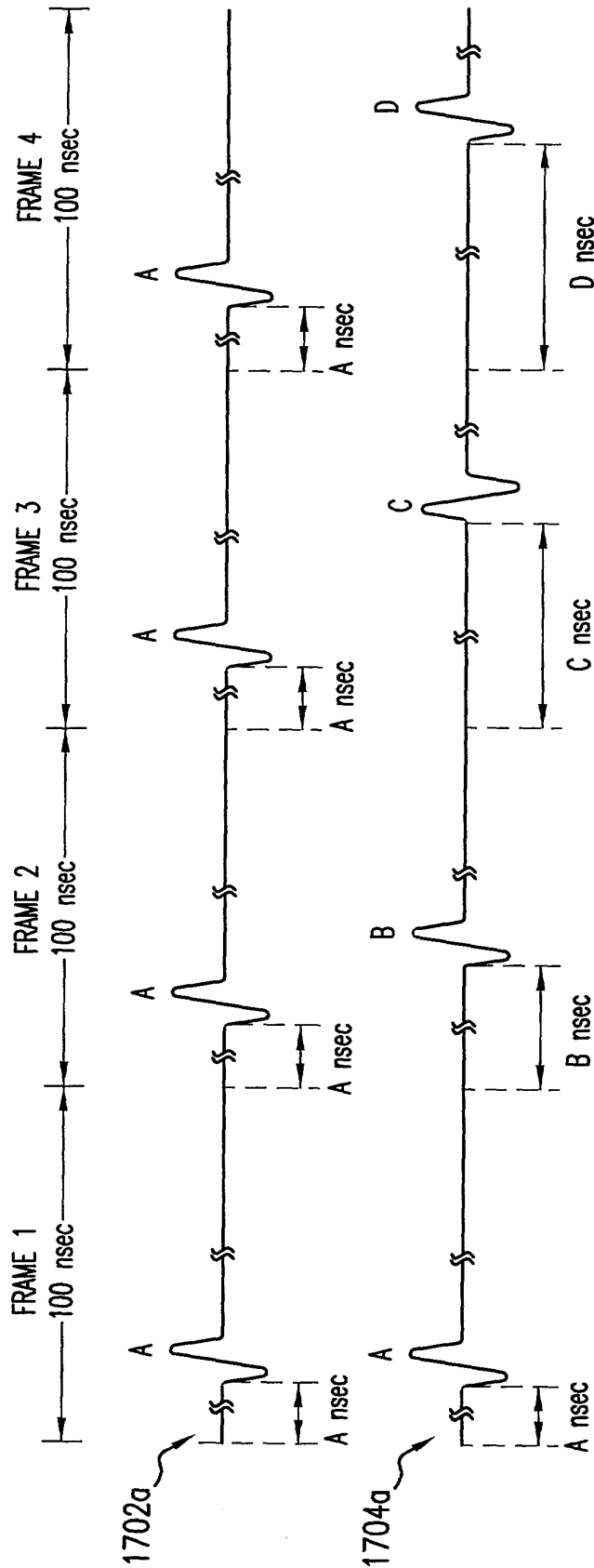


FIG. 17A

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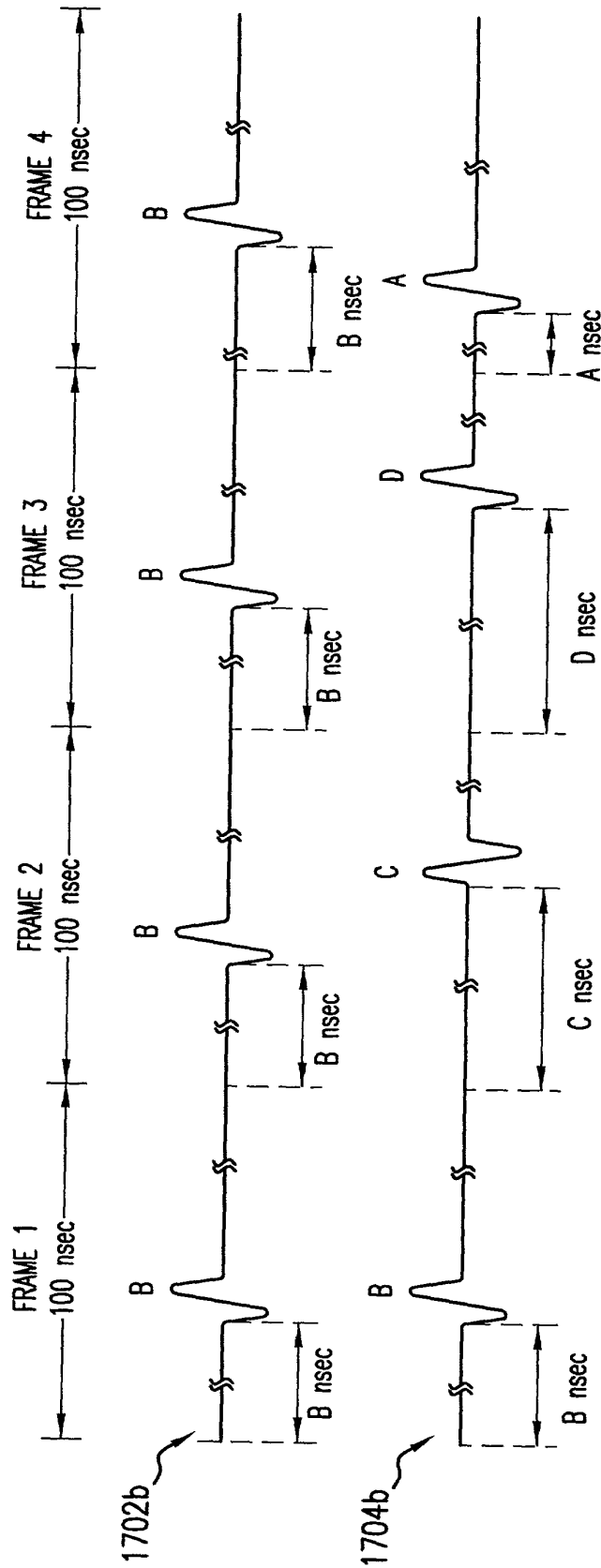


FIG.17B

1659.0860001

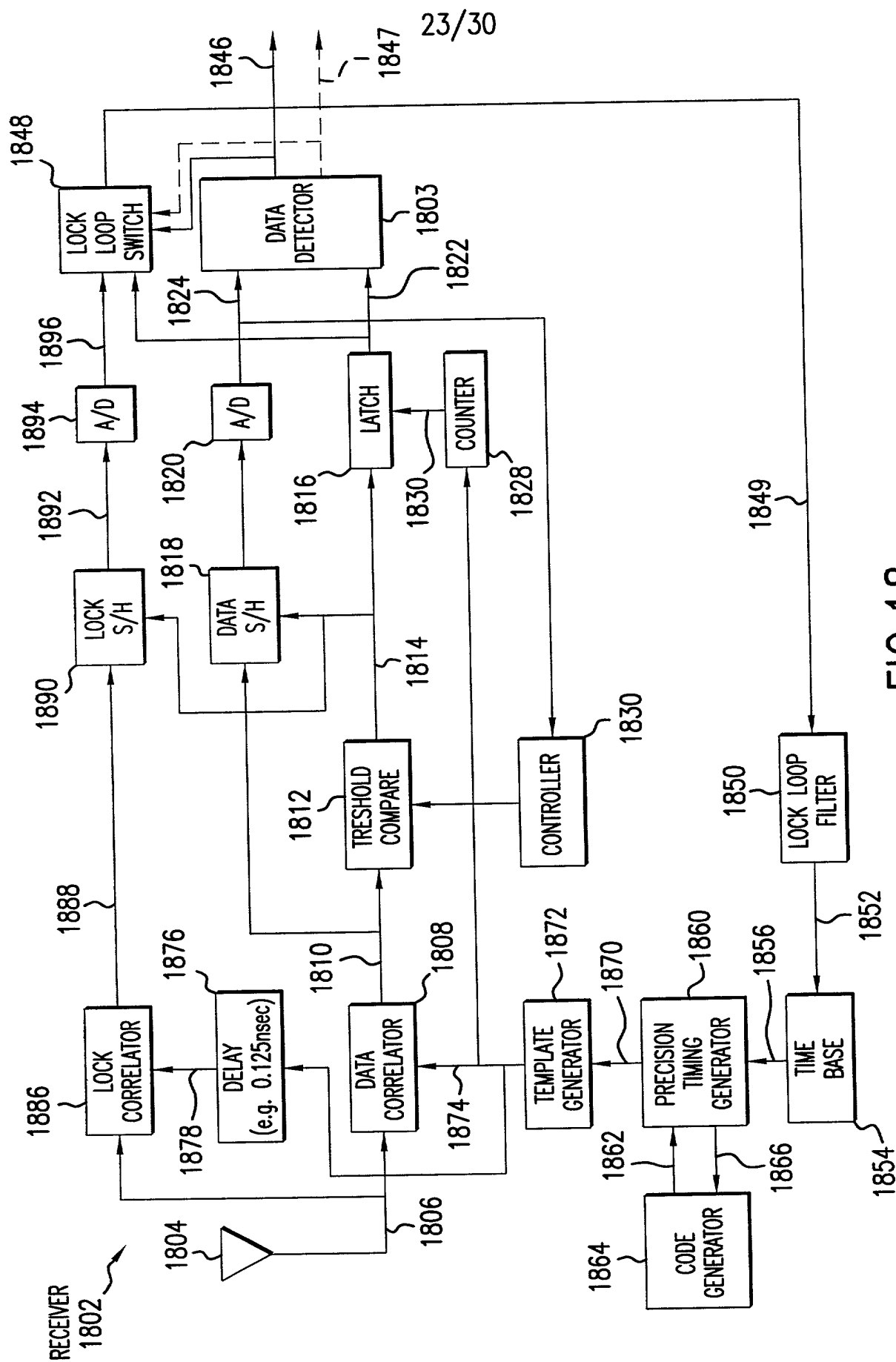


FIG. 18

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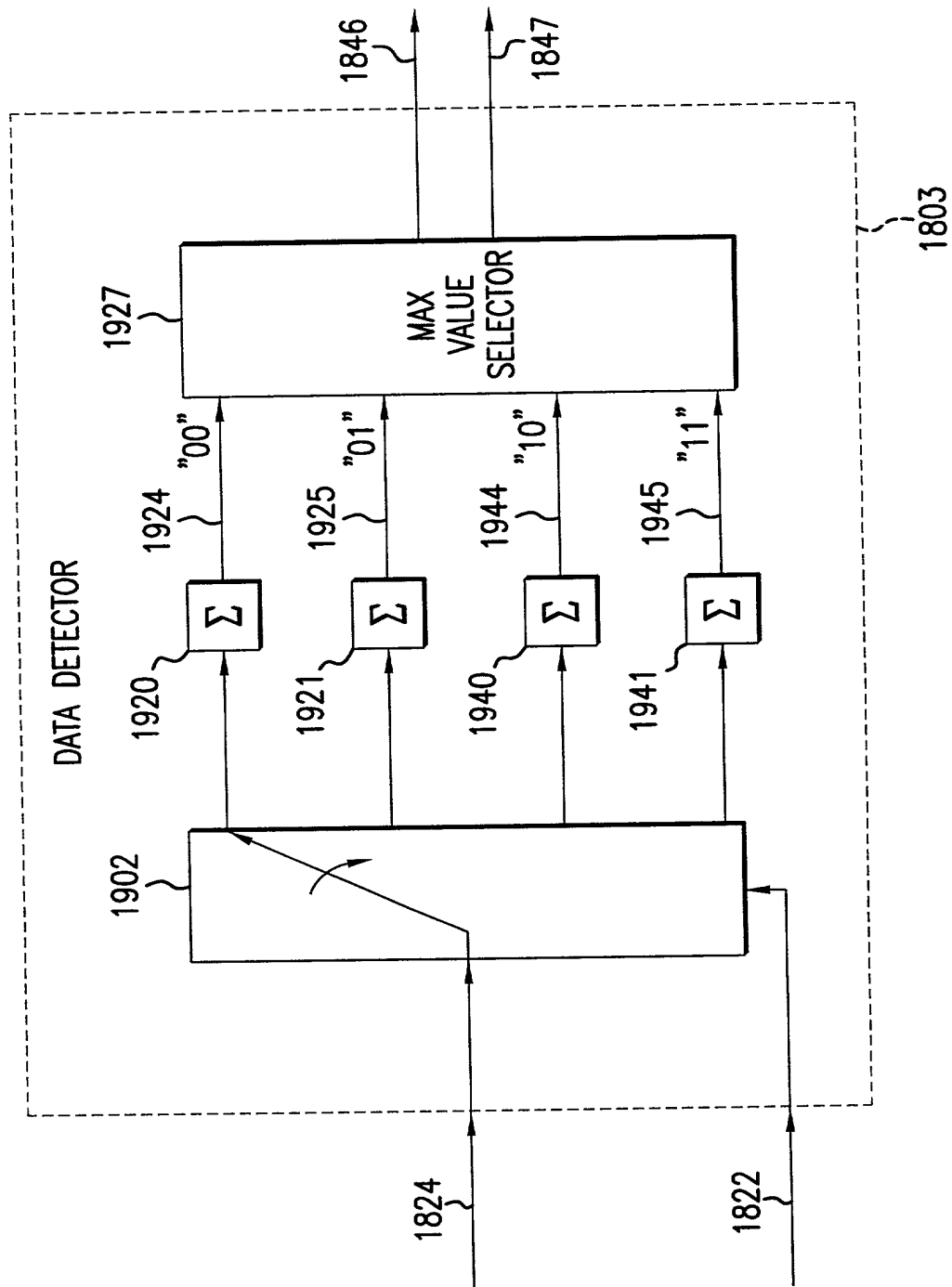


FIG.19

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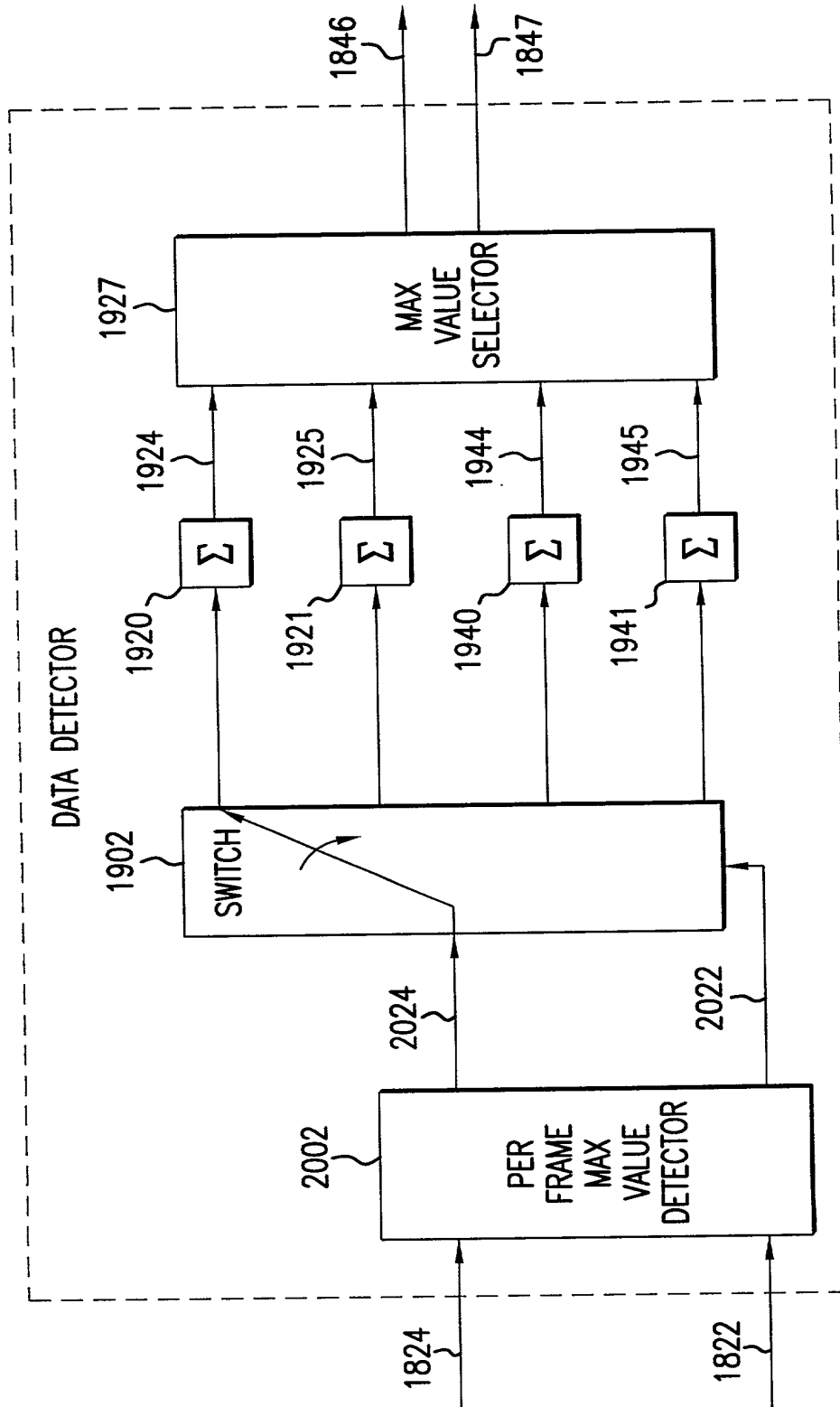


FIG.20

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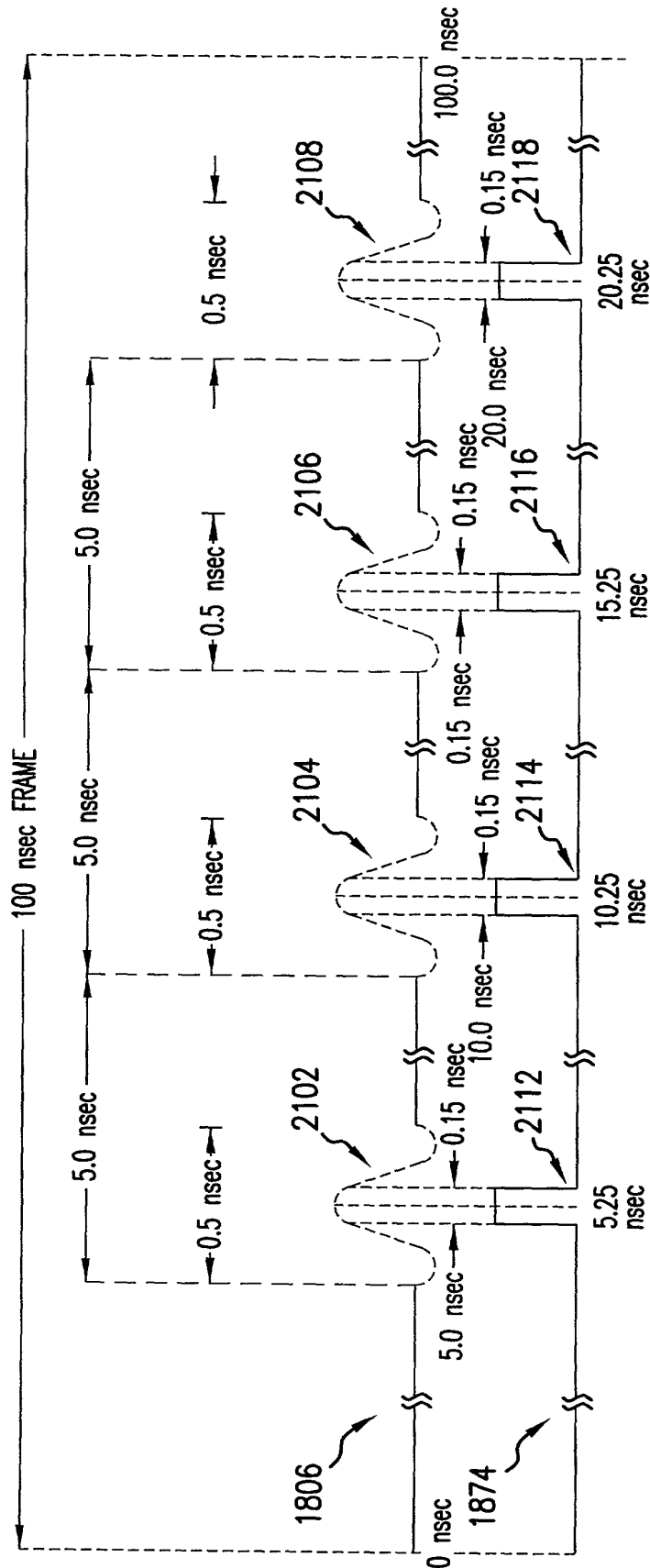


FIG.21

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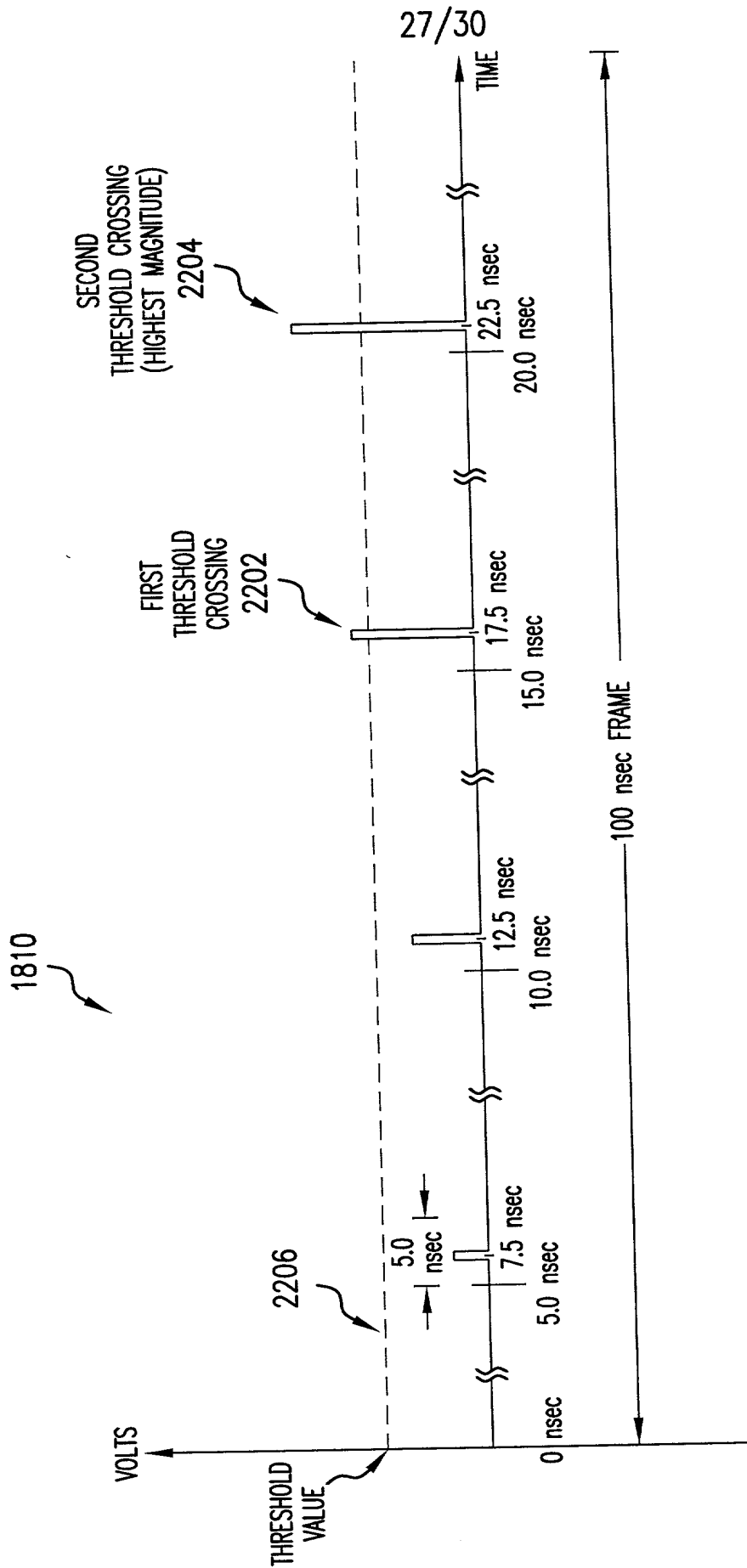


FIG.22

FIG. 22

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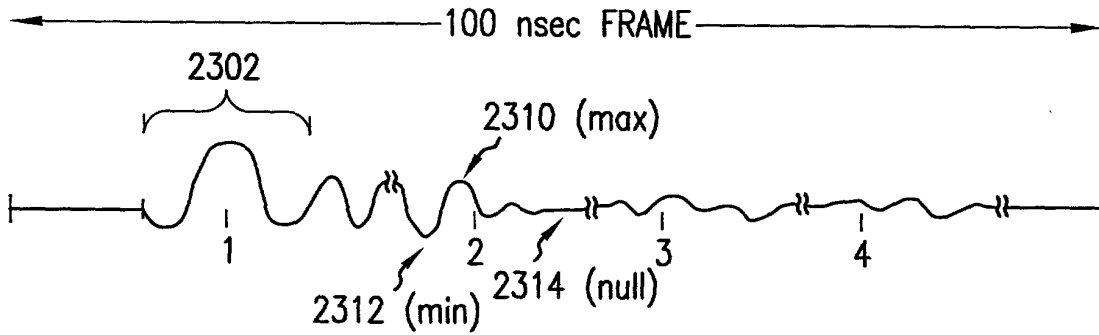


FIG. 23A

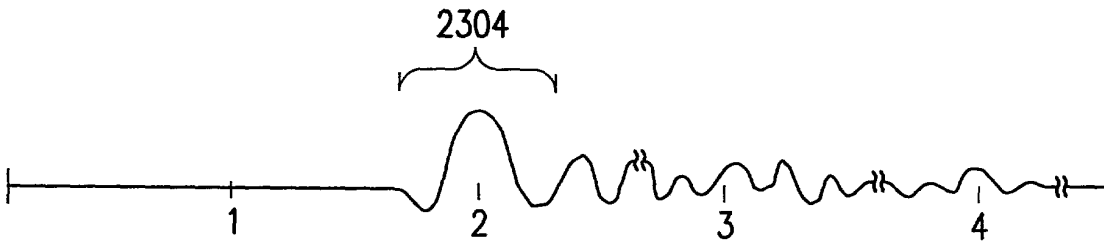


FIG. 23B

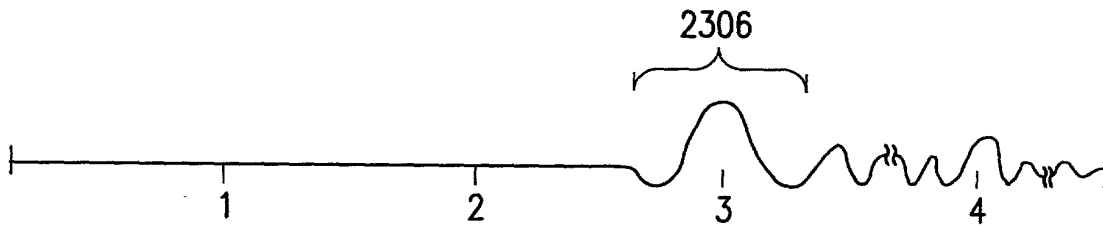


FIG. 23C

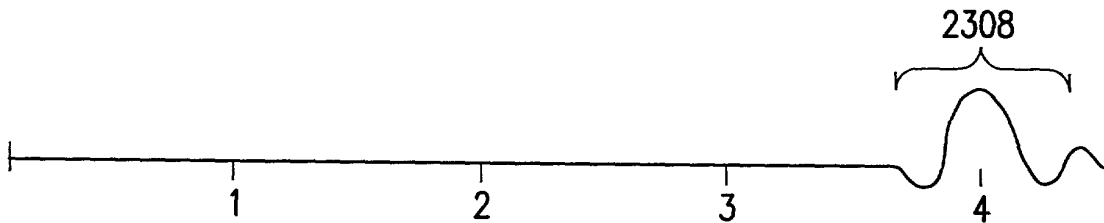


FIG. 23D

FIG. 23A

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2402

LOCATION OF CORRELATOR: ACTUAL LOCATION OF IMPULSE		2412				2414		2416		2418	
		A (FIRST POSITION)				B (SECOND POSITION)		C (THIRD POSITION)		D (FOURTH POSITION)	
2404	A (FIRST POSITION)	A _A				B _A		C _A		D _A	
2406	B (SECOND POSITION)					B _B		C _B		D _B	
2408	C (THIRD POSITION)							C _C		D _C	
2410	D (FOURTH POSITION)										

FIG.24

FIG. 24

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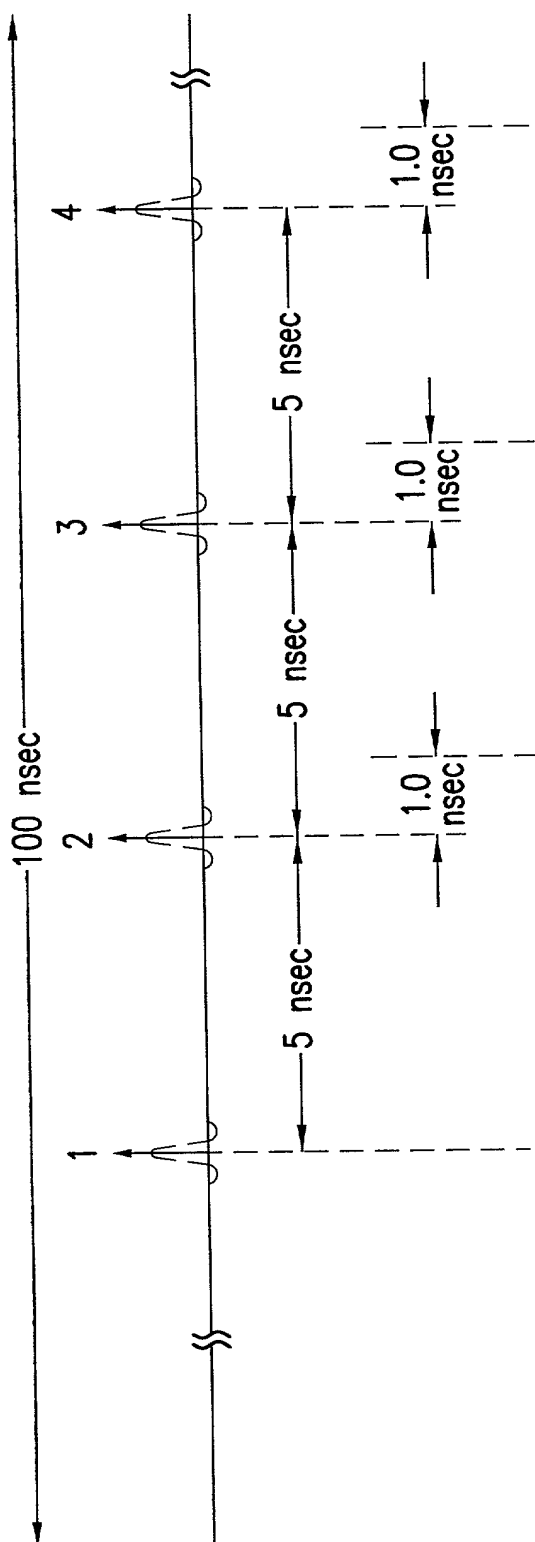


FIG. 25A

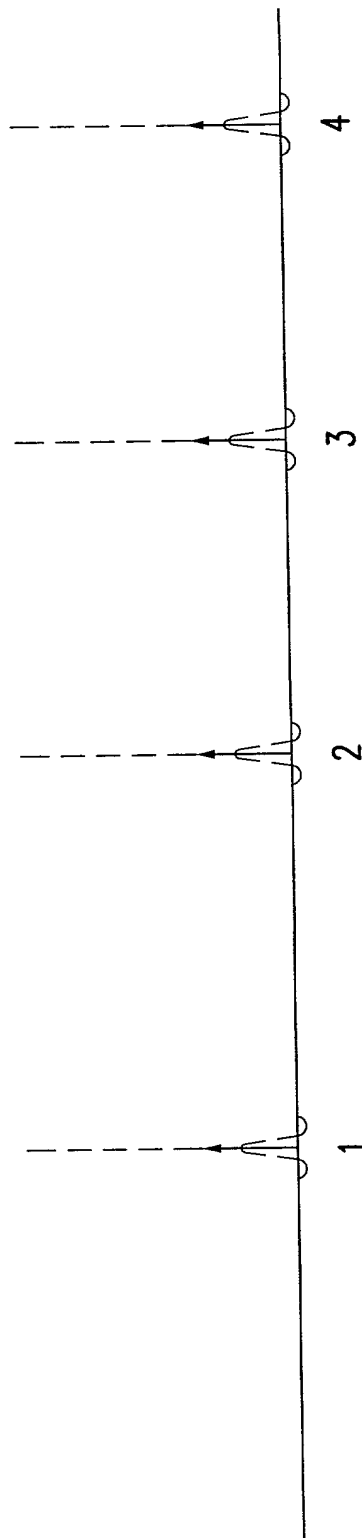


FIG. 25B

FIG. 25A